FORM PTO-1	449		DOCKET NUMBER		APPLICATION NUMBER				
	FORMATION DISC		NPW 329C		10/802,	657			
×			APPLICANTS DAVID J. EDLUN WILLIAM A. PLE STUDEBAKER	-		-			
			FILING DATE March 16, 2004						
		U.S. P.	ATENT DOCUMENTS	3					
EXAMÍNER INITIAL	DOCUMENT NUMBER	DATE	. NAME	CLASS	SUB CLASS		DATE PPROP.		
RH5	2,824,620	2/25/1958	De Rosset	_	_				
245	2,958,391	11/1/1960	De Rosset	_	_				
PHS	3,144,312	8/11/1964	Mertens	_					
PHS	3,208,198	9/28/1965	Rubin	_					
245	3,336,730	8/22/1967	McBride et al.						
PHS	3,338,681	8/29/1967	Kordesch						
15H2	3,350,176	10/31/1967	Green et al.		_				
BHZ	3,368,329	2/13/1968	Eguchi et al.						
R#F	3,428,476	2/18/1969	Langley et al.	_	_				
RHS	3,439,474	4/22/1969	McKinley	_	_				
PH5	3,447,288	6/3/1969	Juda et al.	_					
RHS	3,450,500	6/17/1969	Setzer et al.		_				
	···	FOREIGN	PATENT DOCUMEN	ITS					
	DOCUMENT NUMBER	DATE	COUNTRY	CLA	SS SUB CLASS	TRANS YES	SLATION NO		
RHS	GB 1032132	6/1966	United Kingdom			х			
RHS	JP 45-14404	5/1970	Japan	_			Х		
			OTHER DOCUMEN	ITS			4		
₹j#C	English-l	anguage abstra	ct of Japanese Patent N	o. 1 -2 6	2903, 1989.				
PHG			ct of Japanese Patent N						
EXAMINER Pobert	H. Spitze		DATE CONSIDERED February						

FORM PTO-14	449			DOCKET NUMBER		APPLICATION NUMBER			
	ORMATION DISC ATION IN AN APP			NPW 329C		10	0/802,	657	
				APPLICANTS DAVID J. EDLUN WILLIAM A. PLE STUDEBAKER	-				
				FILING DATE March 16, 2004	H II I I I I I I I I I I I I I I I I I				
			U.S. PA	TENT DOCUMENTS	5				
EXAMINER INITIAL	DOCUMENT NUMBER		DATE	NAME	CLASS		SUB CLASS		DATE PPROP.
RHS	3,469,944 9/30/1969			Bocard et al.	_	1			
DHT.	3,520,803	7/2	1/1970	Iaconelli	_	-			
BAR	3,534,531 10/10/1970			Eguchi et al.	_	-			
RH2	3,564,819 2/23/1971			Neulander et al.	_				
RHS	3,665,680 5/30/1972			Heuser	_	-			
BH	3,713,270	1/3	0/1973	Farr et al.	_	-	-		
SHZ	3,761,382	9/2	5/1973	Hammond et al.	_	-	_		
PHS	3,787,038	1/2	2/1974	Tesner et al.	_	-	-		
PHT	3,881,891	5/6	/1975	Goltsov et al.		_			
RHS	3,881,897	5/6	/1975	Faure et al.		_	-		
5H2	3,920,416	11/	18/1975	Houseman		-			
RHS	3,955,941	5/1	1/1976	Houseman et al.	_	-	_		
			FOREIGN	PATENT DOCUMEN	NTS ·		•		
	DOCUMENT NUMBER		DATE	COUNTRY	CLA	ss	SUB CLASS	TRANS YES	SLATION NO
2H2	JP 45-2642		9/1970	Japan		-	-		Х
PHJ	JP 57-145276		9/1982	Japan			_		х
				OTHER DOCUMEN	THER DOCUMENTS				
PM.	English-	lang	uage abstrac	t of Japanese Patent N	o. 4321	50,	1992.	•	
Dept.	English-	lang	uage abstrac	t of Japanese Patent N	o. 5132	30,	1993.		
EXAMINER Robert	H. Sp;+	2 4/	_	DATE CONSIDERED Februar			2005		

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FORM PTO-I	449		DOCKET NUMBER		APPLICATION NUMBER			
	FORMATION DISC ATION IN AN APP		NPW 329C		10/802	, 657		
			APPLICANTS DAVID J. EDLUN WILLIAM A. PLE STUDEBAKER	-		-		
			FILING DATE March 16, 2004		GROUP ART			
		U.S. P	ATENT DOCUMENTS	3				
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.		
PHS	3,972,695	8/3/1976	Buckley et al.					
BH?	3,982,910	9/28/1976	Houseman et al.	_				
RHS	4,003,725	1/18/1977	Bunn, Jr. et al.	_	_			
BHS	4,056,373	11/1/1977	Rubin	_				
RHS	4,084,934	4/18/1978	Kumazawa	_	_			
RH7	4,098,959	7/4/1978	Fanciullo	_	_			
SH?	4,132,668	1/2/1979	Gryaznov et al.	_	_			
RHS	4,134,739	1/16/1979	Gulden et al.		_			
RHI	4,238,403	12/9/1980	Pinto					
PHS	4,248,688	2/3/1981	Gartner et al.					
PH5	4,254,086	3/3/1981	Sanders	_	-			
SHP.	4,302,177	11/24/1981	Fankhanel et al.		_			
		FOREIG	N PATENT DOCUMEN	NTS				
	DOCUMENT NUMBER	DATE	COUNTRY	CLA	SS SUB CLASS	TRANSLATION YES NO		
PH1	JP 1-145302	6/1989	Japan			X		
BHZ	JP 1-145303	6/1989	Japan		_	Х		
			OTHER DOCUMEN	NTS				
BHL	English-	language abstra	act of Japanese Patent N	o. 5147	790, 1993.			
BIF	English-	anguage abstra	act of Japanese Patent N	o. 6040	70, 1994.			
EXAMINER Pober	+ H. Spitz		DATE CONSIDERED Februa		7 2005			

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FORM PTO-1	449			DOCK	CET NUMBER		API	PLICATIO		ER
	FORMATION DISC			NPW	/ 329C		10	0/80	2,657	7
				DAV WIL	APPLICANTS DAVID J. EDLUND, CHARLES R. HILL, WILLIAM A. PLEDGER and R. TODD STUDEBAKER					
				III	FILING DATE GROUP ART UNIT March 16, 2004 1724					
			U.S. PA	TENT I	TENT DOCUMENTS					
EXAMINER INITIAL	DOCUMENT NUMBER	DATE			NAME	CLASS		SUB CLASS		DATE PPROP.
RHS	4,319,923	3/16/19	82	Falang	a et al.	_	-	_		-
RHS	4,331,520	,331,520 5/25/1982			al.		-			-
RHY	4,422,911 12/27/1983			Juda et	al.	_	-	_		
BHS	4,430,304 2/7/1984			Spurrie	er et al.		_			
RHS	4,468,235 8/28/1984			Hill			_	-		
RHS	4,472,176	9/18/19	84	Rubin		_	_	-		
RHS	4,473,622	9/25/19	84	Chludz	inski et al.	_	_	<u>.</u>		<u>.</u>
12HJ	4,504,447	3/12/19	85	Spurrie	er et al.	_	_	_	<u>-</u>	
RHS	4,533,607	8/6/198	5	Sederq	uist	_		·		
RHS	4,567,857	2/4/198	6	Houser	nan et al.		_	_		
DHF.	4,583,583	4/22/19	86	Wittel			_	-		
RHS	4,589,891	5/20/19	86	Iniotak	is et al.					
		FO	REIGN	PATEN'	T DOCUMEN	NTS				
	DOCUMENT NUMBER		DATE		COUNTRY	CLA	ss	SUB CLASS	TRANS YES	LATION NO
PHJ	JP 1-262903	10/1	1989	Japan			İ	_		X
PHS	EP 0434562 B	6/26	5/1991	ЕРО				_	х	
				OTHE	R DOCUMEN	MENTS				
SH2	English-l	anguage	abstract	of Japa	nese Patent No	o. 6345	40.			
₽ # C	English-l	anguage	abstract	of Japa	nese Patent No	o. 7109	10,	1995.		
EXAMINER Pober	+ H.Sitz				DATE CONSIDERED Februar				~	

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FORM PTO-1	449			DOCKET NUMBER		APPLICATION NUMBER					
	FORMATION DISC				NPW 329C		1	0/802	,657		
		5.0.				DAVID J. EDLUND, CHARLES R. HILL, WILLIAM A. PLEDGER and R. TODD					
					FILING DATE GROUP ART UNIT March 16, 2004 1724						
			U.S. P	ΑΊ	FENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER		DATE		NAME	CLASS		SUB CLASS		. DATE APPROP.	
245	4,613,436	9/2	3/1986		Wight et al.	_		_			
BH?	4,654,063	3/3	1/1987		Auvil et al.	_	1.				
Z44 S	4,655,797	/1987		Iniotakis et al.	_		_	1			
PHS 4,657,828 4/14/1987					Tajima						
S tft	4,659,634		Struthers								
PHS	4,699,637	10/13/1987			Iniotakis et al.	-					
RHS	4,713,234	12/	15/1987		Weirich et al.	_	-	_			
BHZ	4,788,004	11/	29/1988		Pinto et al.	_	-	-			
RH	4,810,485	3/7	/1989		Marianowski et al.		_	_			
SH?	4,838,897	6/1	3/1989		Amano et al.		_	_			
RHS	4,849,187	7/1	8/1989		Uozu et al.	_	_	-			
PHS	4,865,624	9/1	2/1989		Okada		_	_			
			FOREIG	Ŋ P	ATENT DOCUMEN	VTS					
	DOCUMENT NUMBER		DATE		COUNTRY	CLA	ss	SUB CLASS	TRAN YES	SLATION NO	
SHI	JP 3-242231		10/1991	Ja	pan	_		_		X	
RHS	JP 4-338101		11/1992	Japan — X					Х		
					OTHER DOCUMEN	ITS					
RHS	English-	lang	uage abstra	act	of Japanese Patent N	o. 8287	93,	1996.			
RHS	English-	lang	uage abstra	act	of Japanese Patent N	o. 1111	620	2, 1999.			
EXAMINER POPOR	t H. Sp.t	20,			DATE CONSIDERED Februar	, 9	2	00S			

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FORM PTO-1	ORM PTO-1449				CKET NUMBER		APPLICATION NUMBER			
	FORMATION DISC ATION IN AN APP			, NI	PW 329C		10	1802	657	
				D/ W	PLICANTS AVID J. EDLUN ILLIAM A. PLE UDEBAKER	•			•	
				II.	FILING DATE GROUP ART UNIT March 16, 2004 1724					
			U.S. PA	TENT	ENT DOCUMENTS					
EXAMINER INITIAL	DOCUMENT NUMBER		DATE		NAME	CLASS		SUB CLASS		. DATE PPROP.
RHS	4,981,676	1/	1/1991	Min	et et al.	_	_			•
RH2	4,999,107 3/12/1991				rif	_	-	•		
RH2	S 5,126,045 6/30/1992				lheb et al.	_	_	•		
RHS	RHS 5,139,541 8/18/1992				nd					
RHS	5,158,581 10/27/1992				an					
RHS	5,205,841	4/27/1993			nan	_	-			
RHS	5,215,729	6/	1/1993	Bux	oaum	_	_			
RHS	5,217,506	6/8	8/1993	Edlu	nd et al.	_	-			·
RHS	5,225,080	7/0	5/1993	Karb	achsch et al.					
RHU	5,226,928	7/	13/1993	Mak	abe et al.					
SHZ	5,229,102	7/2	20/1993	Mine	et et al.		_			
RHS	5,259,870	11	/9/1993	Edlu	nd		_	-		
<u> </u>			FOREIGN	PATE	NT DOCUMEN	ITS				
	DOCUMENT NUMBER		DATE		COUNTRY	CLA	ss	SUB CLASS	TRAN: YES	SLATION NO
PHI	JP 6-134244		5/1994	Japa	n	_	-			X
BH2.	WO 97/43796						X			
				OTHER DOCUMENTS						
SH.	English-	lang	guage abstrac	t of Ja	panese Patent N	o. 1-14	5302	2.		
RHS	English-	lang	guage abstrac	t of Ja	panese Patent No	o. 1-14	5303	3.		
EXAMINER Pober	H. Sit:	<u> 2e</u> /			DATE CONSIDERED	رر 9	, 2	005		

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FORM PTO-	449			DOCKET NUMBER		AP	PLICATIO	SHEET_7_0 APPLICATION NUMBER			
	FORMATION DISC			NPW 329C		- 1	0/802	. 657	1		
CIT	ATION IN AN APPI	LICATION	-								
			u	APPLICANTS DAVID J. EDLUN	т сн	ΔR	I ÉS É H	ш			
				WILLIAM A. PLEDGER and R. TODD							
<u>.</u>		<u> </u>		STUDEBAKER							
			- 11	FILING DATE GROUP ART UNIT							
		<u> </u>		March 16, 2004			1724	<u>.</u>			
		U.S. PA	TE	NT DOCUMENTS	3		 				
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	-	NAME	CLASS		SUB CLASS		. DATE PPROP.		
PHS	5,326,550	7/5/1994	A	dris et al.	_	_					
15th?	5,354,547	10/11/1994	Ra	ao et al.	_		_				
RHS	5,376,167	12/27/1994	Bı	outin et al.		-	_				
ZHS.	5,382,271	1/17/1995	Ng et al.				-				
RHS	5,393,325	2/28/1995	Edlund -								
2HZ	5,401,589	3/28/1995	Pa	lmer et al.	_		-				
RHZ	5,432,710	7/11/1995	Isl	nimaru et al.			_				
RHJ	Re. 35,002	7/25/1995	М	atsubara et al.		<u> </u> .	_				
BH	5,449,848	9/12/1995	Itoh				_				
PHS	5,458,857	10/17/1995	Co	ollins et al.		_					
PH2	5,498,278	3/12/1996	Ec	llund		_	-				
2HS	5,500,122	3/19/1996	Sc	hwartz	<u> </u>		_				
	<u></u>	FOREIGN	PA	TENT DOCUMEN	VTS						
	DOCUMENT NUMBER	DATE		COUNTRY	CLA	ss	SUB CLASS	TRAN YES	SLATION NO		
RHS	WO 99/30806	6/1999		WIPO	_	-	_	X			
SHZ	WO 99/65097	12/1999	WIPO - X								
			ОТ	HER DOCUMENT	ΓS	<u>·</u> J		<u> </u>	1)		
PH5	English-l	anguage abstrac	t of	Japanese Patent N	o. 4-33	810	1.		· · · · · ·		
RHS	English-l	anguage abstrac	t of	Great Britain Pate	nt No. 2	2,30	5,186.				
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FORM PTO-I	449			DO	CKET NUMBER		APPLICATION NUMBER			
Ī	FORMATION DISC			NP	W 329C		10	01862,	657	
				DA WI	PLICANTS LVID J. EDLUN LLIAM A. PLE UDEBAKER	•			-	
				18	FILING DATE GROUP ART UNIT March 16, 2004 1724					
			U.S. PA	TEN	T DOCUMENTS	S				
EXAMINER INITIAL	DOCUMENT NUMBER		DATE	NAME CLASS				SUB CLASS		DATE
P45	5,516,344	5/1	4/1996	Corri	gan		Γ.			
5H2	5,518,530	5/2	1/1996	Saka	i et al.	_	1	_		
RHS	RHS 5,520,807 5/28/1996				na et al.	1	·	-		
SH2	PHS 5,525,322 6/11/1996				ns					
JEH2.	THS 5,536,405 7/16/1996				na et al.	(
RHS	5,580,523 12/3/1996			Bard		-	-	_		
RHS	5,589,599	12/	31/1996	McM	Iullen et al.	1	-	_		
PHS	5,614,001	3/2	5/1997 ·	Kosa	ka et al.	1	_	-		
RHS	5,637,259	6/1	0/1997	Galu	szka et al.			_		
RHS	5,637,414	6/1	0/1997	Inoue	e et al.	1	_	· .		
RH5	5,639,431	6/1	7/1997	Shira	saki et al.	-	_	· .		
RHS	5,645,626	7/8	/1997	Edlu	nd et al.	1	_	-		
			FOREIGN	PATI	ENT DOCUME	NTS				
	DOCUMENT NUMBER	<u>.</u>	DATE		COUNTRY	CLA	ss	SUB CLASS	TRAN YES	SLATION NO
PHS	WO 00/27507	7	5/2000	WIP	О	_		_	X	
ЪЩ	EP 1065741 A	1/3/2001	EPC)		-	_	Х		
				OTH	IER DOCUME	NTS			1	4
PH5	English- No. W	langi O 9	uage abstra 7/43796, 19	ct of 97.	German languag	ge PC	ΓР	atent Ap	plicatio	n Serial
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FORM PTO-1	449				DOCKET NUMBER	•	APPLICATION NUMBER			
	FORMATION DISC ATION IN AN APP				NPW 329C		10	0/862	,65	1
· · · · · · · · · · · · · · · · · · ·						DAVID J. EDLUND, CHARLES R. HILL, WILLIAM A. PLEDGER and R. TODD				
					FILING DATE March 16, 2004	1				
			U.S. PA	TE	NT DOCUMENTS					
EXAMINER INITIAL	DOCUMENT NUMBER		DATE	T	NAME	CLASS		SUB CLASS		DATE PPROP.
RHS	5,679,249	10)/21/1997]	Fendya et al.					
SH	5,703,359 12/30/1997				Wampler, III		_	-		
Б І Г	5,734,092	7	Wang et al.	_	-	_				
RHS	5,738,708	4/	14/1998]	Peachey et al.	_				
PH7	5,741,474	4/2	21/1998]	Isomura et al.					
ZHY.	5,741,605	4/2	21/1998		Gillett et al.	_	-	-		
BHS	5,782,960	7/2	21/1998		Ogawa et al.	_	_			
RHS	5,795,666	8/:	18/1998		Johnssen	_	_	-		
PHS	5,811,065	9/2	22/1998		Sterenberg					
RAJ	5,821,185	10	/13/1998	,	White et al.	•	_			_
DH2	5,833,723	11	/10/1998		Kuwabara et al.		_			_
PHS	5,858,314	1/1	12/1999]	Hsu et al.	_	_	•		
	•		FOREIGN	PA	TENT DOCUMENT	'S				
	DOCUMENT NUMBER		DATE		COUNTRY	CLA	ss	SUB CLASS	TRANS YES	LATION NO
RHS	WO 01/28662	2	4/2001	W	IPO	_	-		Х	
PHS	WO 01/8308	w	IPO				Х			
			O'	OTHER DOCUMENTS						
BH.	of Me	thai	., et al., "A l ne," The Can per, 1991).	luid	dized Bed Membrane an Journal of Chemic	React	or fo	or the St ring, Vo	eam Re I. 69, pp	forming
EXAMINER Pober	r+ H. Spi-	12	e (DATE CONSIDERED Februar	., 9		2005		

FORM PTO-1	449	DOCKET NUM	BER		APPLICATIO	N NUMBER			
	ORMATION DISC		NDW 220C			10/802	2,657		
CITA	ATION IN AN APP	LICATION	NPW 329C			•			
	,		APPLICANTS DAVID J. EI WILLIAM A STUDEBAK	. PLE	•		-		
			FILING DATE March 16, 20	FILING DATE GROUP ART UNIT March 16, 2004 1724					
		U.S. PA	TENT DOCUM	ENT DOCUMENTS					
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	·	CLASS	SUB CLASS	FIL. DATE IF APPROP.		
PH5	5,861,137	1/19/1999	Edlund		1	_			
PHS	5,874,051	2/23/1999	Heil et al.	_	_	_	-		
RHZ	5,888,273	3/30/1999	Buxbaum		_	_			
PH5	5,891,222	4/6/1999	Hilgendorff et al.			_	-		
PH5	5,904,754	5/18/1999	Juda et al.			_			
PH5	5,931,987	8/3/1999	Buxbaum		. —	_			
PHS	5,932,181	8/3/1999	Kim et al.		~	_			
RHS	5,938,800	8/17/1999	Verrill et al.		_				
PH5	5,997,594	12/7/1999	Edlund et al.			_			
D165	5,998,053	12/7/1999	Diethelm		_	_			
PHS	6,042,956	3/28/2000	Lenel		-	_			
PHS	6,045,772	4/4/2000	Szydlowski et a	al.	-				
		FOREIGN	PATENT DOCU	JMEN	ITS				
	DOCUMENT NUMBER	DATE	COUNTRY		CLA	SS SUB CLASS	TRANSLATION YES NO		
		<u> </u>	OTHER DOCU	JMEN	ITS		<u> </u>		
PH5	Disper	rsed Microporo	otion of Methar us Alumina Men apan, pp. 41-44 (nbrane	Reacto	forming Us or," Chemis	ing Ruthenium- try Letters, The		
RHS	"Compac	t, Lightweight	Fuel Reforme	r for	Fuel		gonne National		
EXAMINER Pobor	DATE CONSIDERED February 9, 2005								

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FORM PTO-1	449		DOC	KET NUMBER		APPLICATION NUMBER			
	FORMATION DISC ATION IN AN APP		NPV	W 329C		10	1802,	,657	
			DA' WII	APPLICANTS DAVID J. EDLUND, CHARLES R. HILL, WILLIAM A. PLEDGER and R. TODD STUDEBAKER					
			II .	NG DATE ch 16, 2004		GR	OUP ART 1724		
		U.S. PA	TENT	ENT DOCUMENTS					
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME C			,	SUB CLASS		DATE PROP.
ZH5	6,077,620	6/20/2000	Pettit		_	_	•		
RH2	6,083,637	7/4/2000	Walz	et al.		_	-		
PH5	6,103,028	8/15/2000	Juda e	et al.		_	_		
PHS	6,103,411	Matsu	ıbayashi et al.	(_	•			
RHS	6,152,995	Edlund -			_	-		•	
PHS	THS 6,165,633 12/26/2000			Negishi -			-		
RHS	6,168,650	1/2/2001 .	Buxba	aum	_	_	-		
PH	6,171,574	1/9/2001	Juda et al.						
RHS	6,183,543	2/6/2001	Buxba	aum		_	•		
PHS	6,190,623	2/20/2001	Sange	er et al.	_	_			
PHS	6,201,029	3/13/2001	Wayc	uilis	_	_			
PHS	6,221,117	4/24/2001	Edlun	d et al.	_	_	-		
<u></u>		FOREIGN	PATEN	NT DOCUMEN	ITS				
	DOCUMENT NUMBER	DATE	C	OUNTRY	CLA	ss	SUB CLASS	TRANS YES	LATION NO
		ОТН	ER DOCUMEN	TS				•	
RH2	Econo	eformer	am Pledger, "! for Fuel-Cell Institute, Lond	System	ns,"	Fifth G	rove Fu	el Cell	
EXAMINER Pober	examiner Pobort H. Spitzv			February 9, 2005					

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FORM PTO-1	449			DOC	KET NUMBER		APPLICATION	ON NUMBER		
		ATION DISC		NPV	V 329C		10/802	2,657		
	·	·		DA' WIL	LICANTS VID J. EDLUN LLIAM A. PLE IDEBAKER			•		
					FILING DATE GROUP ART UNIT March 16, 2004 1724					
			U.S. P.	ATENT I	DOCUMENTS	3				
EXAMINER INITIAL		OCUMENT NUMBER	DATE		NAME	CLASS	SUB CLASS	FIL. DATE IF APPROP.		
PHS .	6,23	1,831	5/15/2001	Auten	rieth et al.					
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FORM PTO-1449					DOCKET NUMBER		APPLICATION NUMBER				
INFORMATION DISCLOSURE CITATION IN AN APPLICATION					W 329C	10/802,657					
					APPLICANTS DAVID J. EDLUND, CHARLES R. HILL, WILLIAM A. PLEDGER and R. TODD STUDEBAKER						
					ING DATE arch 16, 2004	GROUP ART UNIT 1724					
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